

Daniel “Ludo” DeAnda

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Education

[The University of Texas at Dallas](#) (August 2019 - May 2023)

B.S. in Computer Science, *summa cum laude* (GPA: 3.99)

Graduated with major honors (CS^2) and university honors (Collegium V)

Technical Skills

Web Languages: React, Next.js, TypeScript, JavaScript (ES6+), CSS, HTML, jQuery

Other Languages: Java, Kotlin, Node.js, Python 3, C++, C, SQL, Terminal/Bash (including SSH)

Code Editors: IntelliJ IDEA, WebStorm, PyCharm, CLion, DataGrip, VS Code, Eclipse

Engineering: Postman, Insomnia, PostgreSQL, Vim, NPM, PNPM, Yarn, Git, GitHub, Jira, AWS

Collaboration: Figma, Notion, Confluence, Slack, Discord, Microsoft 365, Google Workspace

Spoken Languages: California Seal of Bilingualism in Spanish

Other: Problem Solving, Debugging, Written and Spoken Communication

Professional Experience

[Instructor, CodeDay Labs](#) (October 2023 - Present)

- Help college students develop and submit contributions for open-source programming projects
- Resolve issues students encounter during development environment setup and provisioning
- Identify bugs and solve novel problems students encounter in any programming language
- Teach programming concepts relevant to students' projects at varying levels of complexity
- Guide students through Git/GitHub workflows and the authoring of related documentation
- `export SKILLSHONED="$SKILLSHONED:Communication:Debugging:Terminal:Bash"`
`export SKILLSHONED="$SKILLSHONED:GitHub:Git:Python:NPM:Yarn:VS-Code"`

[Software Engineering Intern, Cvent, Inc.](#) (June 2022 - August 2022)

- Constructed RESTful API endpoints in Java to facilitate the storage (POST), retrieval (GET), and validation of complex user data stored in PostgreSQL database tables
- Wrote unit tests, integration tests, and automation tests using Jest, Karate, and Cucumber
- Performed CI/CD deployments using Jenkins and smoke tests using Postman
- Contributed to design and debugging efforts by pair programming with employees
- Investigated potential causes of integration test timeouts and reported findings
- Corrected and authored new internal documentation for development environments
- `const skillsHoned = new Set(['Java', 'JetBrains IDEs', 'React', 'Yarn', 'PostgreSQL', 'Jira', 'Communication']);`

[Software Engineer Intern, Onfleet, Inc.](#) (May 2021 - August 2021)

- Resolved an existing issue with the admin dashboard in a dedicated Git branch
- Used callback functions and hooks to remake a delivery and pick-up tracking page in React
- Created robust test suites using Jest and the React Testing Library
- Learned how to use NPM packages such as `styled-components` and `grommet`
- `const skillsHoned = new Set(['React', 'VS Code', 'NPM', 'Git/GitHub', 'UNIX Servers via SSH', 'Slack']);`

Additional Experience

Lead Front-End Engineer, Computer Science Project (CS 4485; Spring 2023)

- Designed and developed the front end of an account and identity access management system for UTD student organization Nebula Labs using React, Next.js, and TypeScript
- Researched and performed cost analysis for a single sign-on (SSO) solution for the system
- Collaboratively created supporting documents such as a project proposal and final report
- `const skillsHoned = new Set(['Next.js', 'React', 'TypeScript', 'PNPM', 'GitHub', 'VS Code', 'Communication']);`

Researcher, UTD Student Network Study (May 2020 - September 2020)

- Developed an efficient Python program to identify, manipulate, and observe changes in the properties of a university student network using graph theory
- Collaborated with six other honors students and worked under an honors professor
- Used **numpy**, **pandas**, and **matplotlib** to facilitate computations and visualize results
- Co-authored an academic paper listing the team's findings and recommendations
- `skills_honed = {"Python", "JetBrains IDEs", "Git/GitHub", "UNIX/SSH"}`

Artificial Intelligence and Machine Learning (CS 4365 Honors and CS 4375; Spring 2022)

- Described and evaluated uninformed search problems, informed search problems, constraint satisfaction problems, propositional knowledge bases, Bayes networks, and games
- Mastered fundamental principles such as regression, multilayer perceptrons, convolutional neural networks, gradient descent, backpropagation, support vector machines, clustering methods, dimension reduction, and reinforcement learning
- Created artificially intelligent Pac-Man agents in Python for a course-wide competition
- Implemented several multilayer perceptrons and used them to perform image classification
- `skills_honed = {"Python", "AI/ML", "JetBrains IDEs", "Problem Solving"}`

Database Systems (CS 4347; Fall 2021)

- Produced and normalized relational database schemas from entity relationship diagrams, identifying primary keys, foreign keys, and functional dependencies
- Used SQL statements to create a relational database from scratch and modify its contents using Oracle Database 19c and SQL Developer
- Wrote SQL queries to retrieve information from and about relational databases
- `select * from SKILLS_HONED where Skill in ('SQL', 'SQL Developer');`

Honors and Certifications

AWS Cloud Solutions Architect Specialization, Coursera (official certification pending)

National Merit Scholar, The National Merit Scholarship Corporation

Valedictorian, Homestead High School, Cupertino, CA

Six-Time Award Recipient, CodeDay (Best Game, Best in Show, Special Awards for Design)

Activities and Projects

Social Co-Chair, Novis A Cappella (5 Semesters, 2020 – 2022)

- Organized and ran various social events, maintained the organization's Reddit account and Discord server, and designed and regularly updated its website
- Skills Honed: HTML/CSS, Communication, and Leadership

Various Projects (2015 - Present)

- Visit danieldeanda.com to learn more about my work!